PoE & PoE+ Giga-MiniMc LFPT

DS-PoE & PoE+ Giga-MiniMc-4912
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10/100/1000 MBPS POE & POE+ SWITCHING MEDIA CONVERTER

The PoE and PoE+ Giga-MiniMc LFPT is targeted for Gigabit and 100 Mbps applications that require power over Ethernet to locations where PoE is needed to power the unit.

B&B ELECTRONICS

PRODUCT INFORMATION

Features and Benefits

Flexible Solution

- Connects 10/100/1000 Mbps copper to 100/1000 Mbps fiber SFP or 10/100/1000 Mbps copper SFP
- Supports Jumbo Frames (up to 10240 bytes)
- Rugged stand-alone metal enclosure with compact external power supply
- Multiple mounting options (Desktop, DIN Rail or Wall-mount)
- For multimode, single-mode,single-strand and CWDM fiber
- Features configurable PoE Reset on Fiber LOS
- Packet prioritization

Power Options:

- Supports IEEE 802.3af PoE (15.4W) and IEEE 802.3at PoE+ (25.5W) standards
- 4-terminal DC power with a pair of input terminals and a pair of output terminals for cascading power on DIN installation
- External AC power supply

Plug-and-Play Operation

- User-friendly Auto Negotiation technology
- Auto-Cross MDI/MDIX offered on fixed copper ports

SFP Support

- Auto negotiate speed and flow control for 10/100/1000 copper SFPs with SGMII
- Supports fixed speed 1 Gbps full-duplex copper SFPs
- Auto detect for 100 or 1000 optical SFPs

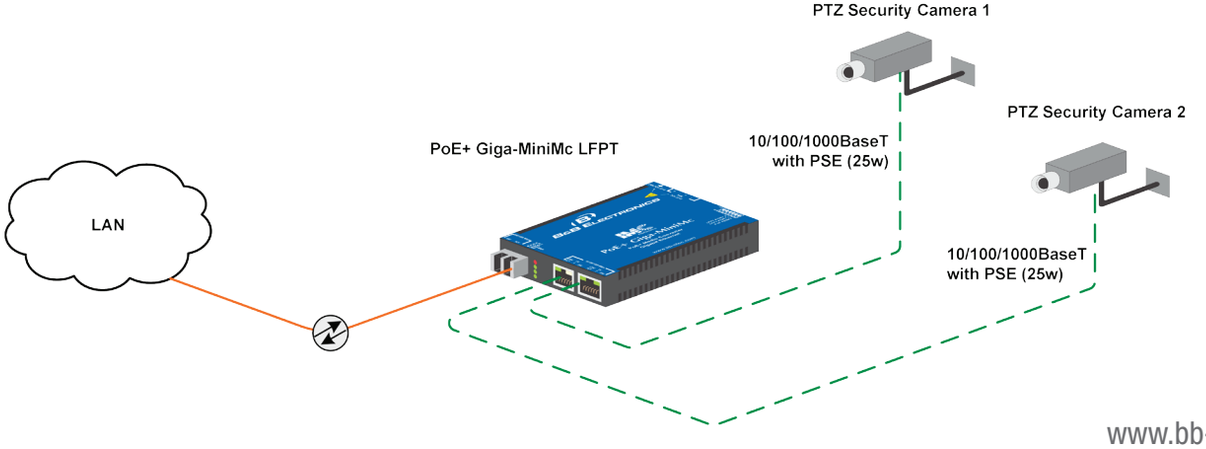
The PoE and PoE+Giga-MiniMc LFPT are low-cost, compact, multi-port media converters that support both PoE and PoE+ standards. Utilizing their flexibility and compact size, interior private network applications can further benefit from the ever-expanding versatility of the MiniMc product line.

Featuring 2 10/100/1000Base-T copper UTP ports and one SFP uplink port that supports either a copper or fiber SFP, the PoE and PoE+ Giga-MiniMc LFPT are Power Source Equipment (PSE) devices. The PoE+ GigaMiniMc LFPT is capable of powering up to two Powered Devices (PD) over standard CAT5 cable or better, whereas the PoE GigaMiniMc LFPT can power one PD device via a copper port while delivering data over the other copper port. The PoE+ GigaMiniMc is able to power high-power devices such as touch panels, PTZ (pan-tilt-zoom) IP surveillance cameras, and RFID readers that require more power than the typical 15.4 W provided by standard PSE devices such as the PoE GigaMiniMc LFPT.

The PoE and PoE+ Giga-MiniMc LFPT models are fully compatible with the IEEE 802.3af/at standards to ensure a seamless intergation into your network. Enhanced features include store-and-forward, Autocross and PoE reset on fiber loss of signal. PoE reset is an advanced function that, when enabled, will force the PSE output power to reset when LINK state is lost on the SFP port.

Application Example

In the following example, the PoE+ Giga-MiniMc LFPT is shown powering two separate pan/tilt/zoom (PTZ) IP surveillance cameras at a remote location. The PoE+ Giga-MiniMc LFPT is powered via AC or 48 VDC, while it can be mounted up to 100 m from the cameras that are being driven via PoE.



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Technical Specifications

- IEEE 802.3 10Base-T twisted pair
- IEEE 802.3u 100Base-TX twisted pair
- IEEE 802.3ab 1000Base-T twisted pair
- IEEE 802.3z 1000Base-LX or SX fiber
- IEEE 802.3af Power over Ethernet
- IEEE 802.3at Power over Ethernet Plus
- IEEE 802.3u Auto-Negotiation
- RFC-2474
- RFC-2475 DiffServ QoS
- Extreme temperature range (DC configuration)
- Plug-and-play operation
- Accepts RJ-45, SC and SFP connectors
- 50/125µm or 62.5/125µm multi-mode fiber
- 9/125µm single-mode fiber
- Single-strand fiber and CWDM models
- Country-specific, high-reliability power adapter
- FX and TX Auto Negotiation
- AutoCross for MDI/MDIX
- MTU: Supports Jumbo Frames up to 10240 bytes
- Supports DIN Rail mounting (DIN clips sold separately)

Regulatory Approvals:
- FCC Class A
- UL/cUL, CSA, CE

Dimensions:
0.80" H x 3.645" W x 3.82" D
(2.032 cm x 9.258 cm x 9.7028 cm)

AC Adapter:
- PoE+ Giga-MiniMc
  Input: 100 to 240 ±10% VAC, 50/60H, 2A *
  Output: 52 VDC, 2.31A
- PoE Giga-MiniMc
  Input: 100 to 240 ±10% VAC, 50/60H, 0.7A *
  Output: 48 VDC, 0.62A

* Maximum input power in Watts is calculated by multiplying the input amps by the lowest input voltage.

DC Input Voltage:
- PoE+ Giga-MiniMc
  51 to 57 VDC on DC terminal block
  51 to 57 VDC on DC jack
- PoE Giga-MiniMc
  45 to 57 VDC on DC terminal block
  48 VDC on DC jack

Operating Temperature:
+32° F to +158° F (0° C to +70° C) DC terminal Block;
5% to 95% (non-condensing)
+32° F to +122° F (0° C to +50° C) w/ AC Adapter;
5% to 95% (non-condensing)

Storage Temperature:
-40° to +185° F (-40° to +85° C)

Fiber Optics Specifications

For each product listed below in the Ordering Information section, the DISTANCE represents an approximate fiber distance based on industry-standard fiber attenuation specifications. Actual distances will vary for each installation. Select units supports MSA compliant SFPs with a 155 Mbps bandwidth rating. B&B Electronics provides a complete range of SFP and fixed fiber transceivers in Single-Strand, Duplex and CWDM fiber versions with a full range of wavelengths and distance ratings. For complete power budget info and information on calculating specific distances contact B&B Electronics Fiber Consulting Services at 949-465-3000.

Ordering Information

PART #	DESCRIPTION	DISTANCE
PoE+ Giga-MiniMc LFPT		
857-11911	PoE+ Giga-MiniMc LFPT, 2TX/SFP **	Varies
857-11912	PoE+ Giga-MiniMc LFPT, 2TX/SX-MM850-SC	220/550 m
857-11913	PoE+ Giga-MiniMc LFPT, 2TX/LX-MM1300-SC	2 km
857-11914	PoE+ Giga-MiniMc LFPT, 2TX/LX-SM1310-SC	15 km
857-11915	PoE+ Giga-MiniMc LFPT, 2TX/LX-SM1310/PLUS-SC	40 km
857-11916	PoE+ Giga-MiniMc LFPT, 2TX/LX-SM1550/LONG-SC	80 km
857-11917	PoE+ Giga-MiniMc LFPT, 2TX/LX-SM1550/XLONG-SC	100 km
Single-Strand Fiber *		
857-11920	PoE+ Giga-MiniMc LFPT, 2TX/SSLX-SM1310-SC (1550 rcv)	15 km
857-11921	PoE+ Giga-MiniMc LFPT, 2TX/SSLX-SM1550-SC (1310 rcv)	15 km
857-11922	PoE+ Giga-MiniMc LFPT, 2TX/SSBX-SM1310-SC (1490 rcv)	10 km
857-11923	PoE+ Giga-MiniMc LFPT, 2TX/SSBX-SM1490-SC (1310 rcv)	10 km
857-11924	PoE+ Giga-MiniMc LFPT, 2TX/SSLX-SM1310/PLUS-SC (1550 rcv)	40 km
857-11925	PoE+ Giga-MiniMc LFPT, 2TX/SSLX-SM1550/PLUS-SC (1310 rcv)	40 km
857-11926	PoE+ Giga-MiniMc LFPT, 2TX/SSBX-SM1310/PLUS-SC (1490 rcv)	30 km
857-11927	PoE+ Giga-MiniMc LFPT, 2TX/SSBX-SM1490/PLUS-SC (1310 rcv)	30 km
857-11928	PoE+ Giga-MiniMc LFPT, 2TX/SSLX-SM1490/LONG-SC (1550 rcv)	70 km
857-11929	PoE+ Giga-MiniMc LFPT, 2TX/SSLX-SM1550/LONG-SC (1490 rcv)	70 km

PART #	DESCRIPTION	DISTANCE
PoE Giga-MiniMc LFPT		
857-11811	PoE Giga-MiniMc LFPT, 2TX/SFP **	Varies
857-11812	PoE Giga-MiniMc LFPT, 2TX/SX-MM850-SC	220/550 m
857-11813	PoE Giga-MiniMc LFPT, 2TX/LX-MM1300-SC	2 km
857-11814	PoE Giga-MiniMc LFPT, 2TX/LX-SM1310-SC	15 km
857-11815	PoE Giga-MiniMc LFPT, 2TX/LX-SM1310/PLUS-SC	40 km
857-11816	PoE Giga-MiniMc LFPT, 2TX/LX-SM1550/LONG-SC	80 km
857-11817	PoE Giga-MiniMc LFPT, 2TX/LX-SM1550/XLONG-SC	100 km
Single-Strand Fiber		
857-11820	PoE Giga-MiniMc LFPT, 2TX/SSLX-SM1310-SC (1550 rcv)	15 km
857-11821	PoE Giga-MiniMc LFPT, 2TX/SSLX-SM1550-SC (1310 rcv)	15 km
857-11822	PoE Giga-MiniMc LFPT, 2TX/SSBX-SM1310-SC (1490 rcv)	10 km
857-11823	PoE Giga-MiniMc LFPT, 2TX/SSBX-SM1490-SC (1310 rcv)	10 km
857-11824	PoE Giga-MiniMc LFPT, 2TX/SSLX-SM1310/PLUS-SC (1550 rcv)	40 km
857-11825	PoE Giga-MiniMc LFPT, 2TX/SSLX-SM1550/PLUS-SC (1310 rcv)	40 km
857-11826	PoE Giga-MiniMc LFPT, 2TX/SSBX-SM1310/PLUS-SC (1490 rcv)	30 km
857-11827	PoE Giga-MiniMc LFPT, 2TX/SSBX-SM1490/PLUS-SC (1310 rcv)	30 km
857-11828	PoE Giga-MiniMc LFPT, 2TX/SSLX-SM1490/LONG-SC (1550 rcv)	70 km
857-11829	PoE Giga-MiniMc LFPT, 2TX/SSLX-SM1550/LONG-SC (1490 rcv)	70 km

CWDM wavelengths are also available. Contact B&B Electronicts for availability.

* These products have single-strand fiber technology. Deploy in pairs, or connect to another compatible IMC Networks single-strand fiber product.

** Requires one SFP/155 Module. SFP modules are sold separately.

PART NUMBER	DESCRIPTION
PoE / PoE+ Giga MiniMc LFPT Accessories	
806-39800	PoE Power Adapter for PoE Giga-MiniMc
806-39900	PoE+ Power Adapter for PoE+ Giga-MiniMc
806-39910	PoE+ Isolated Power Adapter
806-39105	DIN Rail Clip

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